Physical Chemistry  
CHM 330 Class Number: 15114, Fall 2018

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Course Hours: Mon and Wed: 8:00–9:55 AM (6S-232)  
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Learning Objectives for CHM330:

- The course introduces various physical principles and their link with chemical phenomena, with primary emphasis on chemical thermodynamics in CHM 330.
- The student will comprehend three laws of thermodynamics and their applications to chemical processes.
- The student will further learn how to depict thermodynamics principles by using mathematical language.
- The student will apply algebra and calculus to carry out quantitative analysis for chemical thermodynamics problems.
- The student will be able to read and explain the trend in scientific graphics.
- The student will develop critical thinking and problem solving skills.


Scientific calculator: recommended
Outlines of CHM 330

Weeks 1-4
Chap. 1 The properties of gases
Chap. 2 The First Law
Exam 1: 1st of October

Weeks 5-8
Chap. 3 The Second and Third Laws
Chap. 4 Physical transformation of pure substances
Exam 2: 5th of November

Weeks 9-12
Chap. 4 Physical transformation of pure substances (continued)
Chap. 5 Simple mixture
Exam 3: 5th of December

Weeks 13-14
Chap. 6 Chemical equilibrium
Final Exam: To be announced

Grading:

- Quizzes: 14%
- 3 Midterm Exams: 58% (2 higher ones: 23% each; the lowest one: 12%)
- Final: 28%

Note:
1. Quizzes, including pop-up and scheduled quizzes, will be held frequently.
2. Make-up of quizzes and exams is impossible due to the tight schedule during this semester.
3. A scientific calculator is needed for all quizzes and exams.
4. This is the course that requires deep understanding of scientific concepts and extensive mathematical skills for problem solving. Besides constant hardworking, critical thinking is more important than memorizing! Exercise as many problems in the textbook as you can.

Online resources:
* Please check Blackboard and your email account frequently for any new announcement.
* Lecture notes will be posted on Blackboard after each topic is completed.
* Any attached electronic files will be sent to your e-mail accounts registered in Blackboard.
* A scientific calculator is required in quizzes and exams.

Fall 2018 Chemistry Department Withdrawal Policy:

According to CSI's Fall 2018 Academic Calendar, the last day to withdraw with the grade of "W" without permission of an instructor or Chairperson is November 6, 2018. From November 7, 2018 to December 5, 2018, withdrawal from a chemistry course is possible, with the permission given under the discretion of the instructor and the Chairperson. The Chemistry Department policy does not permit the withdrawal from a chemistry course after December 5, 2018.